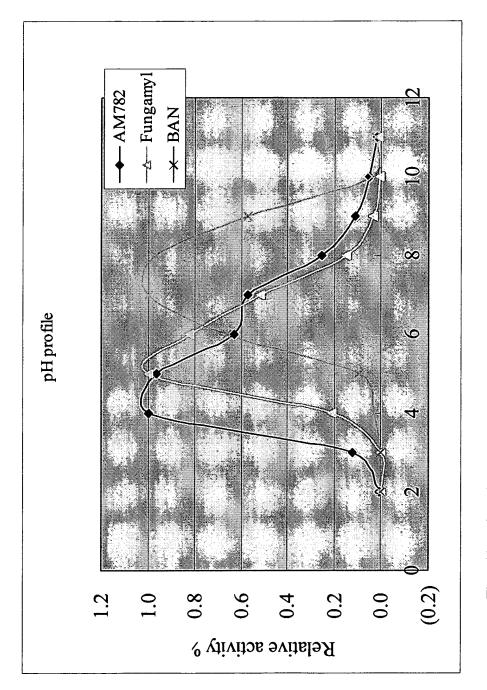
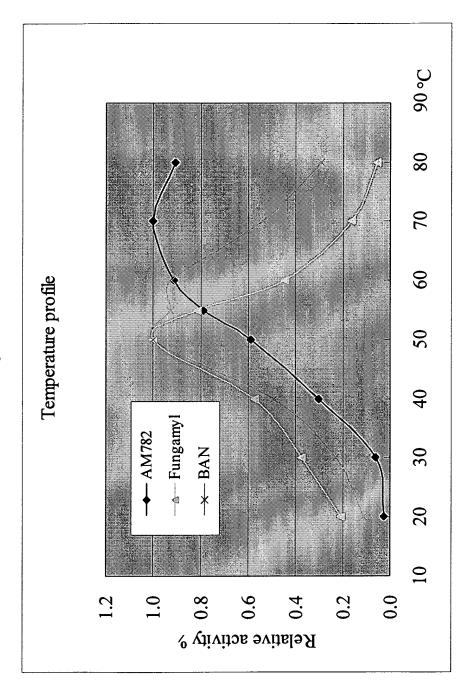
Figure 1

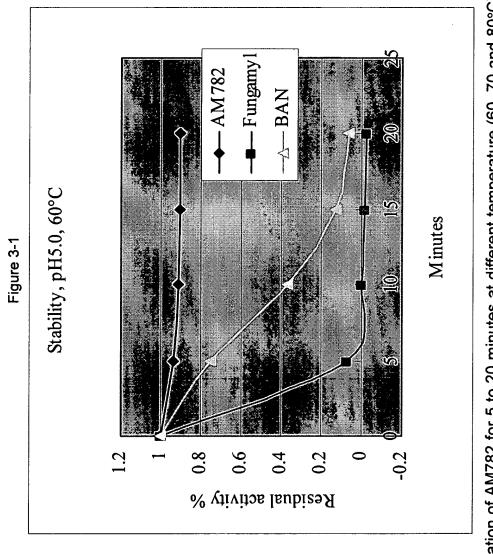


The pH profile of the purified amylase, denoted AM782, is shown in Fig. 1, it is active from pH3 to 9, with optimal pH around 4-5. AM782 seemed to be more acidic than BAN and FungamylTM.

Figure 2

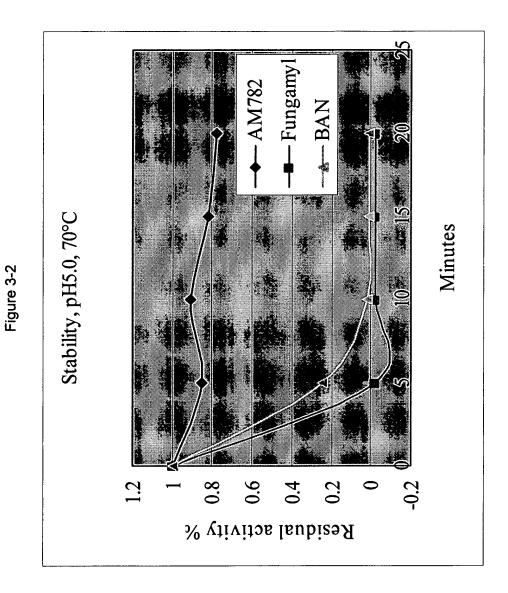


The temperature profile of the purified amylase AM782 is shown, it can be seen that the purified amylase AM782 is active from 30 to at least up to 80 degrees Celcius, and has high optimal temperature (70°C). AM782 still has 90% relative activity at 80°C.

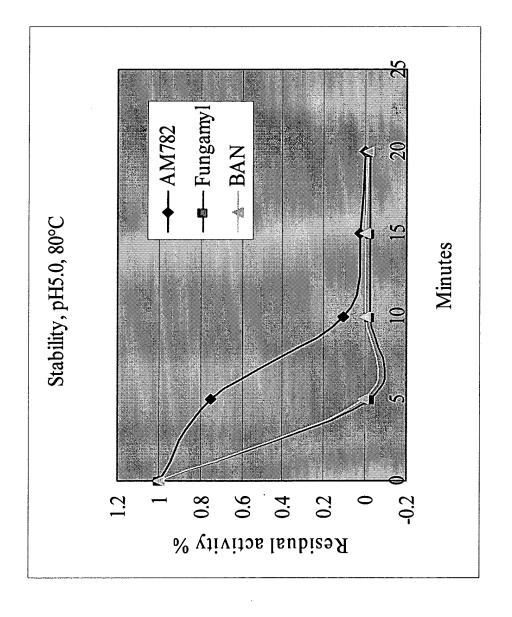


(pH5.0, pH6 and pH7), and the residual activity of AM782 was determined. The stability at pH5.0 is shown in Fig. 3-1 to 3-3. The stability at pH6.0 is shown in Fig. 4-1 to 4-3. The stability at pH7.0 is shown in Fig. 5-1 to 5-3. It can be seen that AM782 is more stable than Fungamyl™ and BAN at all tested conditions. After preincubation of AM782 for 5 to 20 minutes at different temperature (60, 70 and 80°C) and different pH

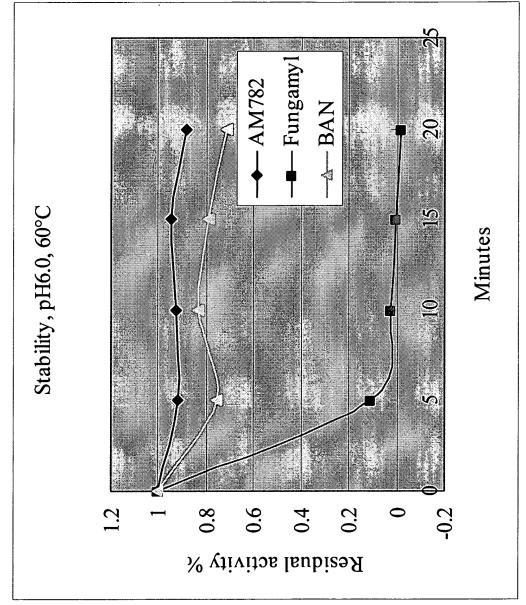
1 4





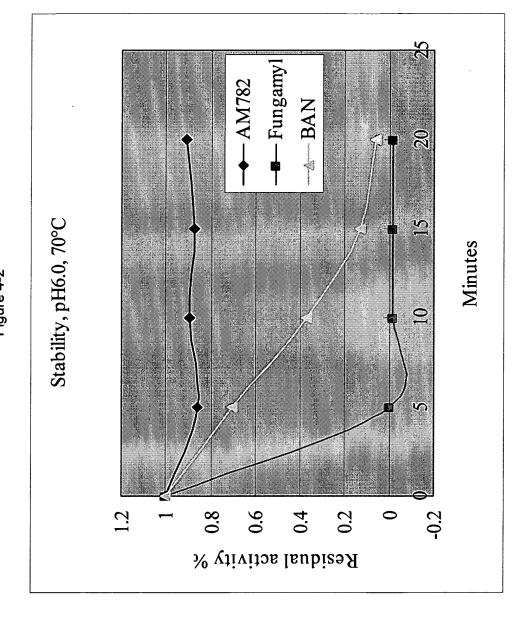


6/14 Figure 4-1

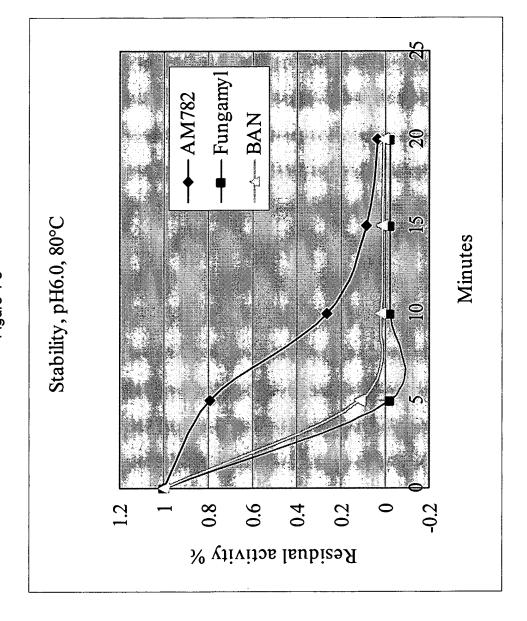


Stability of AM782 at pH 6.0 and under 60, 70 and 80 degrees Celcius.

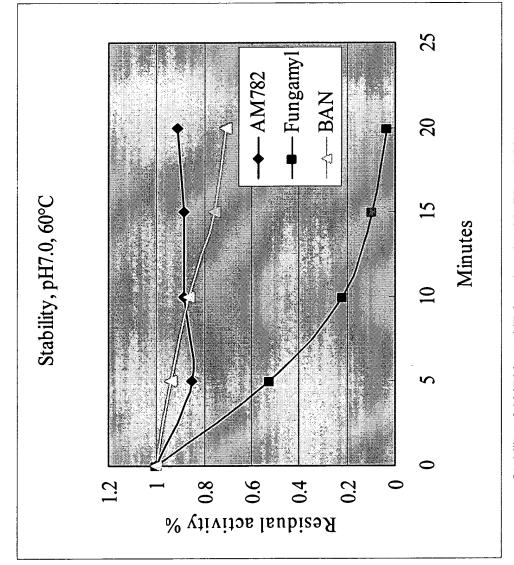
7/14 Figure 4-2



8/14 Figure 4-3

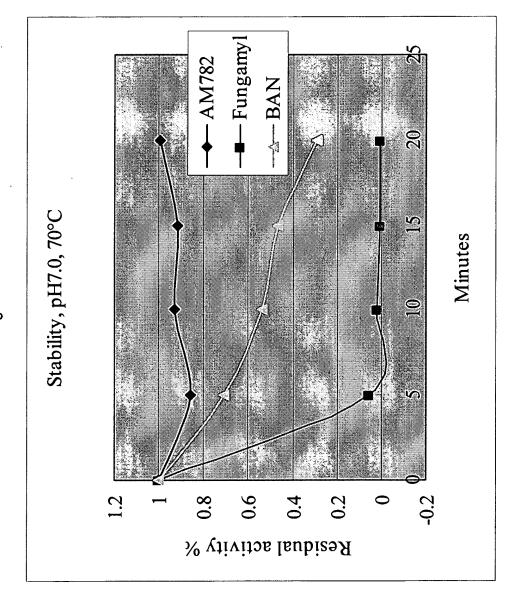




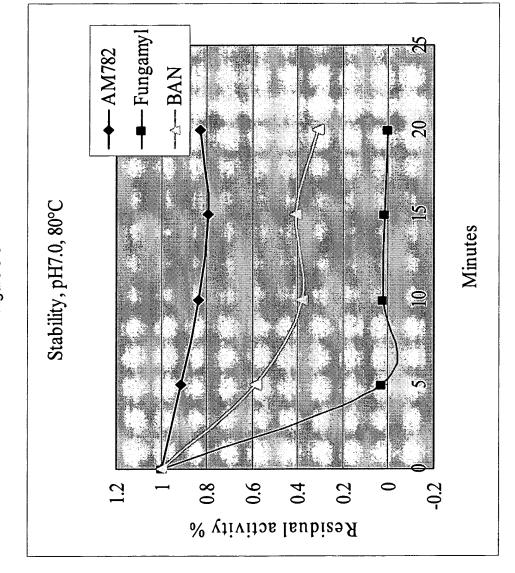


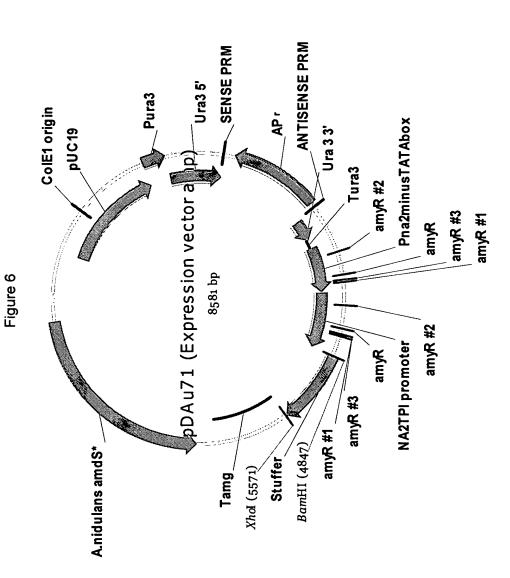
Stability of AM782 at pH7.0 and under 60, 70 and 80 degrees.







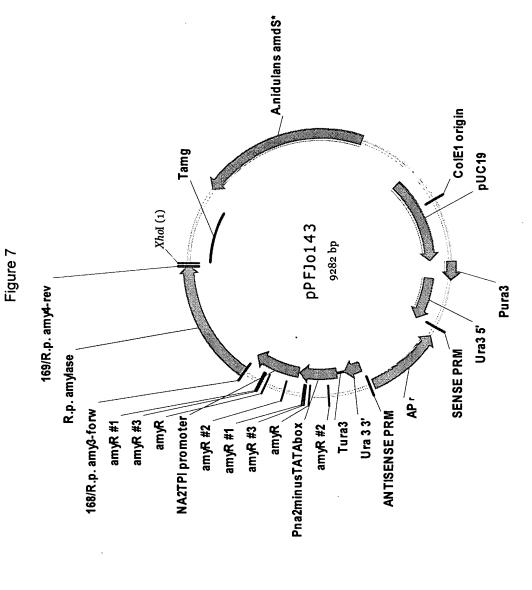




12/14

The Aspergillus expression vector pDAu71 as described in Materials and Methods.





The amylase expression vector, pPFJo143, as described in Materials and Methods.

Figure 8

